



# How to . . . **MARK YOUR PRODUCTS**

*We're now in*  
**SYRACUSE!**

*FINE*  
to give you . . .

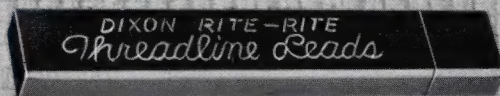
QUICKER  
CLOSER  
BETTER  
SERVICE

JAS. H. MATTHEWS & CO.  
JESSEL STAMP DIVISION

269 ERIE BOULEVARD, WEST

SYRACUSE, N. Y.

2-8924



# JAS. H. MATTHEWS & CO.

SUPPLEMENT B to CATALOG No. 146



# *... with* **MATTHEWS**

## **ROLLER, STAMPING & EMBOSSING DIES**

**T**HROUGHOUT this catalog, a wide variety of steel marking dies, steel type, type holders, marking machines, and special marking devices are illustrated. We have made this catalog as complete as possible to aid you in selecting the proper devices for marking your products. We believe the illustrations indicate our ability to supply dies or other marking tools . . . in any required shape or size . . . to fit any production need.

Today, more than ever before, neat and attractive marking is an important feature of your product. Your name, trademark, patent numbers, description of contents, ornamentation and other important data can be neatly and legibly marked in keeping with the finished product you manufacture . . . with Matthews marking devices.

A Matthews marking device will assure you of accurate reproduction of your trademark design, in any size desired, to conform to rigid trademark laws. The correct size and style of Matthews marking device will assist you in obtaining a standard of marking in keeping with the quality of your product.

Our various plants and sales offices, listed below, welcome the opportunity to aid you in the proper selection of marking tools that will best fit your needs.



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## **JAS. H. MATTHEWS & CO.**

*Main Plant and General Offices*

**3942 Forbes Street, Pittsburgh, Pa. - MAYflower 7500**

*Plants in the following cities*

NEW YORK, N. Y. .... 480 Canal Street.....	WALKer 5-9860	BOSTON, MASS..... 470 Atlantic Avenue.....	Liberty 2730
CHICAGO, ILL..... 3729 Belmont Avenue.....	KEYstone 6773	DETROIT, MICH..... 4461 W. Jefferson Avenue.....	LAfayette 6184
PHILADELPHIA, PA..... 401 N. Broad Street.....	WALnut 3939	NEWARK, N. J..... 577 McCarter Highway.....	MARKet 3-1050
SYRACUSE, N. Y..... 269 Erie Boulevard, West.....	2-8924		

*District Sales Offices*

W. HARTFORD, CONN..... 26 Lancaster Road.....	32-5384	CLEVELAND, O..... 24148 Center Ridge Rd.....	PRospect 2020 (N. Olmsted)
BIRMINGHAM, ALA..... 408 N. Twenty-third Street.....	3-3455		



# Use This Handy Size Chart . . .

FOR DETERMINING HEIGHT, WIDTH AND SPACING OF CHARACTERS ENGRAVED ON STEEL ROLLER,  
STAMPING AND EMBOSsing DIES . . . FOR MARKING YOUR PRODUCTS.

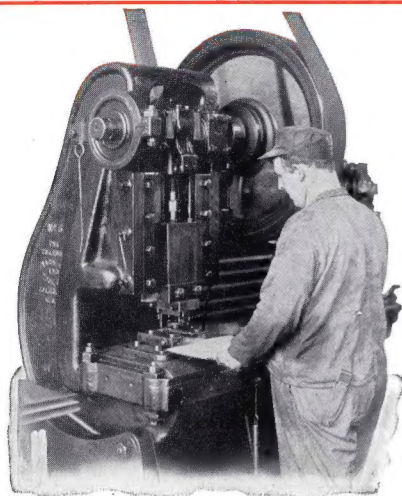
SIZE	EXTRA CONDENSED	CONDENSED	MEDIUM CONDENSED
	<b>STYLE No. 1</b>	<b>STYLE No. 2</b>	<b>STYLE No. 3</b>
1/32	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
3/64	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
1/16	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
5/64	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
3/32	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
1/8	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
5/32	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
3/16	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
1/4	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
5/16	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
3/8	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
1/2	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
SIZE	STANDARD	MEDIUM EXTENDED	EXTRA EXTENDED
	<b>STYLE No. 4</b>	<b>STYLE No. 5</b>	<b>STYLE No. 6</b>
1/32	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
3/64	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
1/16	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
5/64	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
3/32	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
1/8	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
5/32	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
3/16	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
1/4	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
5/16	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
3/8	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN
1/2	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN	ABCDEFGHIJKLMN

## SPECIMEN LETTER STYLES

Sharp Face	GOTHIC	ROMAN	Script	ITALIC
Flat Face	GOTHIC	ROMAN	Script	ITALIC
Open Face	GOTHIC	ROMAN	Script	ITALIC

Determine marking space available and select height and width of characters to fit your need. Allow width of a full character for spacing between words or initials. Periods and commas take half the space of a normal character.





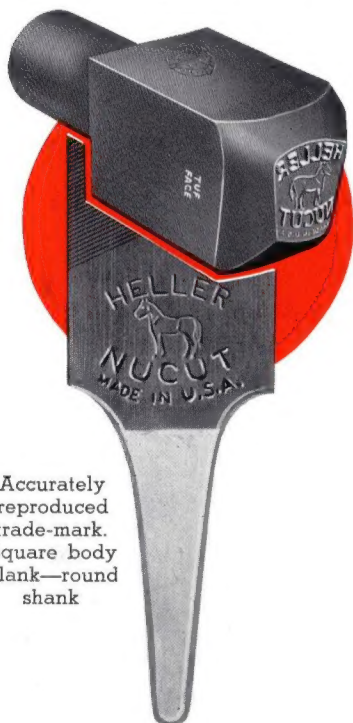
Production marking with a Power Press

## STAMPING DIES DESIGNED Engineered to Fit Your

**"TUF-FACE"**\*\* Stamping dies engraved with lettering, patent numbers, trade-names, trade-marks or other important data . . . in any size . . . for marking your products. Dies made for legible marking on flat, curved, concave or convex surfaces.

Send us a sketch or blue print . . . showing dimensions of shank or body to fit your equipment, together with marking space limitations. Also, send us lettering or facsimile of trade-mark to be reproduced. For size and spacing of characters ... see page 3-B.

\*Reg. U. S. Pat. Off.



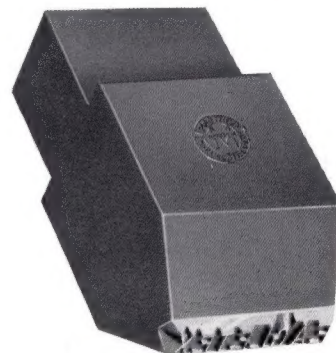
Accurately reproduced trade-mark. Square body blank—round shank



Spherically concave, foil leaf branding die



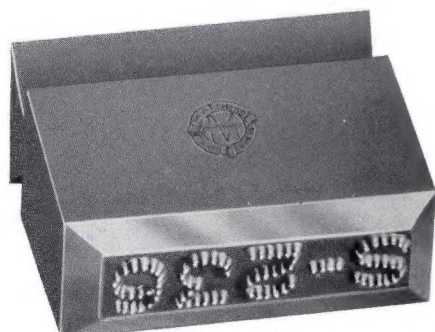
Curved line engraving—rectangular body and round shank die



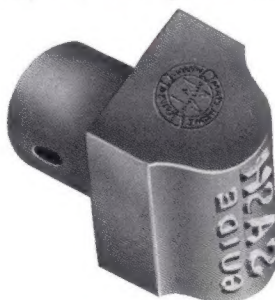
Rectangular body die with rectangular shank



Concave engraved rectangular body die, with special shank

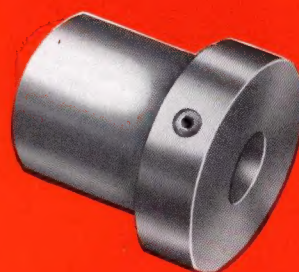


Patented "Lo-Stress" engraved characters—rectangular body with Dovetail shank. U. S. Pat. No. 1,932,357.



Convex engraving (top to bottom of characters). Rectangular body die—special round shank

## ADAPTER For Use With Round Shank Dies



For small overall engraving it is less costly to use a die with a small body and shank, together with an adapter, where the press has a large opening. Also with adapters, the same die can be used in various presses.

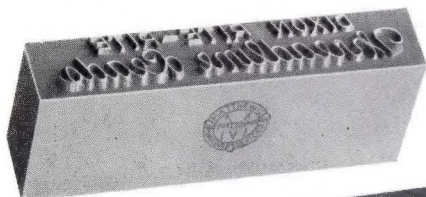




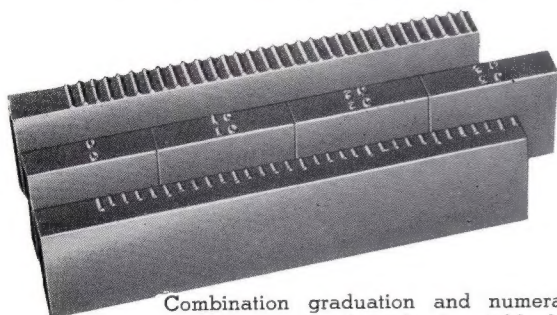
## FOR YOUR MARKING NEED

### Production Equipment

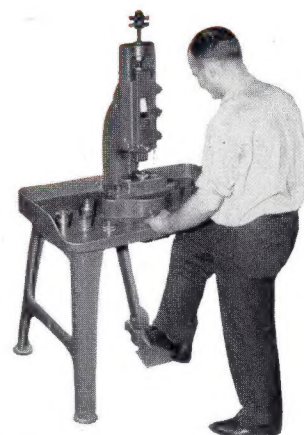
Stamping die blanks machined to any size body or shank required to fit your press equipment. The illustrations on these pages show a few of the many shapes in which die blanks can be made. Let us know your requirements and we will supply dies to accurately fill your marking needs.



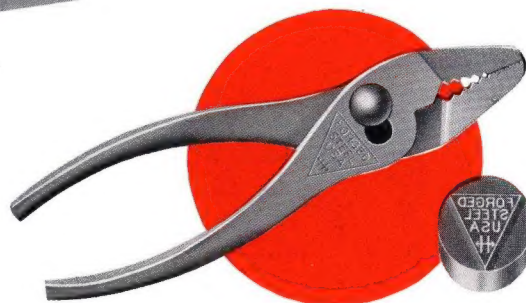
Trade-name engraving on a rectangular blank—for plastic marking



Combination graduation and numeral engraving—on rectangular insert blanks



Stamping products by means of a Foot Press.



Trade-mark on round blank. Shown with marked product.

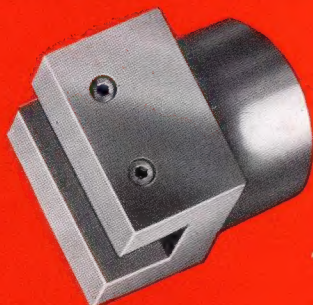


Three line engraving—rectangular, round end insert die

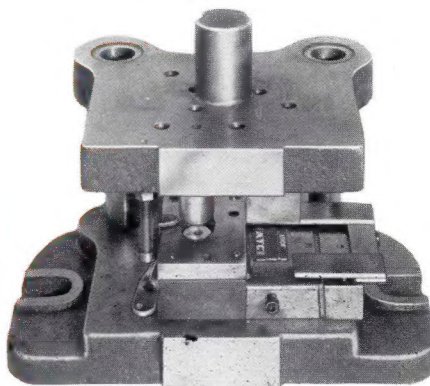


Spherically convex decoration engraved on round blank

### ADAPTER For Rectangular or Square Dies



An adapter of this type is used with rectangular body or shank die blank, also, machined with mortise for use with Dove-tail shank dies. Provides a means for use of rectangular shank dies in presses with round openings.



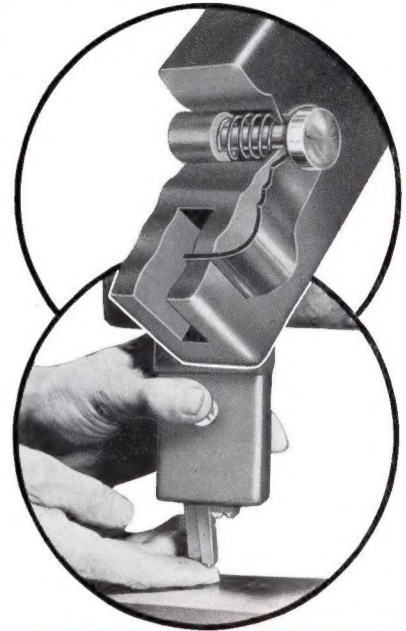
Tool check shown above produced with the combination blanking, piercing and stamping die set shown at left.





## PRESS STYLE HOLDERS...for use

Where the marking on your product varies, interchangeable press style steel type holders are recommended. Steel type, for use with holder, can be supplied engraved with one or more characters, trade-name, trade-mark, special lettering or design . . . in any size. Holders are made for legible marking in straight or curved lines, on flat, convex or concave surfaces.



### *The "Champion"* STEEL TYPE HOLDER

"Champion" Holders (Patented) permit rapid interchangeable marking. They are economical, simple, and of rugged and precision construction . . . assuring alignment and perfect spacing in the stamping of your products. Pressure of thumb on spring actuated button releases type for instant changes.

Cross-section view at right illustrates simple fool proof type changing mechanism. The "Champion" holder has been tried and proven through many years of use throughout industry, to serve successfully wherever interchangeable marking is required.

### DOVETAIL SHANK



No. 111

### "SHEPHERD" HOLDER

Dovetail shanks, as illustrated, can be supplied on "Champion," "Victor," "Quick-Change," or "Shepherd" holders, designed to fit your press.



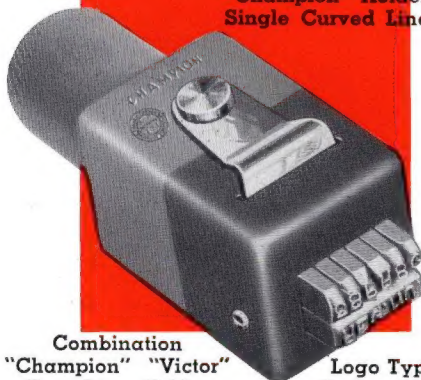
No. 10  
"Champion" Holder  
Single Straight Line



No. 17  
"Champion" Holder  
Single Concave Line



No. 18  
"Champion" Holder  
Single Curved Line



Combination  
"Champion" "Victor"  
Two Line Holder

Logo Type  
Bottom Line



### HOLDER with ADAPTER

Where over size openings in presses require large shanks, it is more economical to use holders with standard size shanks, together with an adapter as illustrated above.





## with interchangeable steel type

Holders can be constructed to any size with properly designed shank to fit your press. The illustrations on these pages show a few of the many styles in which holders can be built.

Send us a sketch or blue print, showing dimensions of shank or body to fit your equipment . . . together with marking space limitations. Character spacing, unlike engraved dies, is dependent on blank sizes.

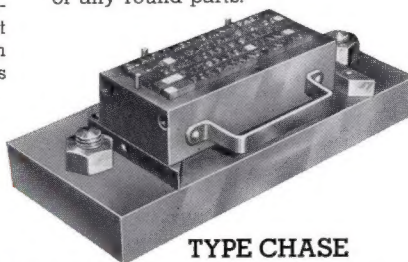


### SPECIAL TYPE HOLDERS

Interchangeable type holders engineered and designed to mark your products. The above illustrates the use of a ring style segment type holder, for marking conically convex collets with interchangeable type. Where standard type holders are not applicable for your marking, send us information and details of your problem for our careful analysis and recommendations.

### RING STYLE HOLDERS

This holder used with interchangeable segment type, engraved with one or more characters . . . for marking rings, plates or any round parts.



### TYPE CHASE

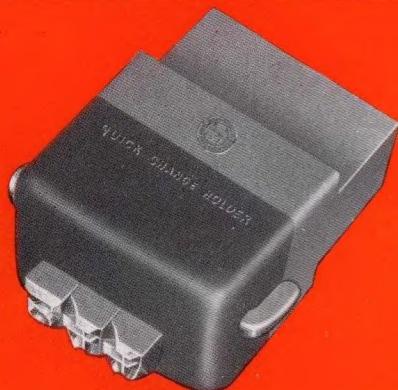
Used with interchangeable type, in one or more lines. The type chase is fastened to the ram or bed of your press. Specially designed for your marking needs.



### HOLDER TYPE

Standard sharp face engraved type. Made with extra strong supporting bevels to give clean cut impressions, available in full range of sizes. Made from selected tool steel, properly hardened and tempered to give maximum service.

## RECTANGULAR SHANK



### No. 70 SS "QUICK-CHANGE" HOLDER

Rectangular shanks shown on the "Quick-Change" holder above, can be supplied on the "Champion," "Victor," or "Shepherd" holders, designed to fit your press.



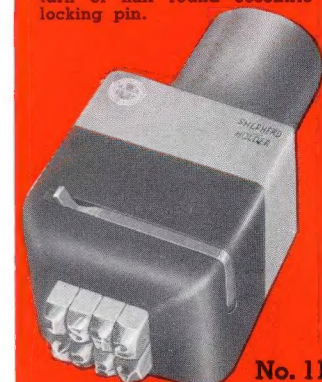
### No. 35

Precision "Victor" Holder for very small character type, 1/32" to 1/16" size. Quickly changed by loosening Headless Setscrew.



### No. 70 RS

Heavy Duty "Quick Change" self contained holder—Type change easily made with 180° turn of half round eccentric locking pin.



### No. 119

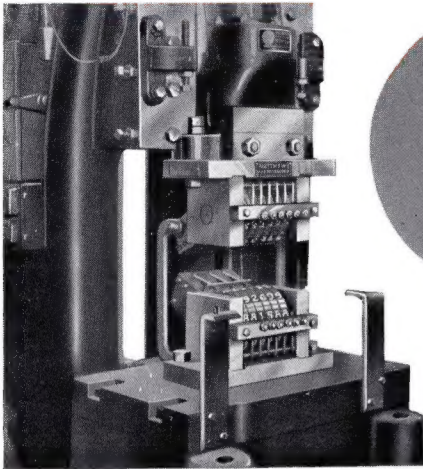
Heavy Duty "Shepherd" double line single hook holder, using double grooved type interchangeably in both lines.



### No. 37

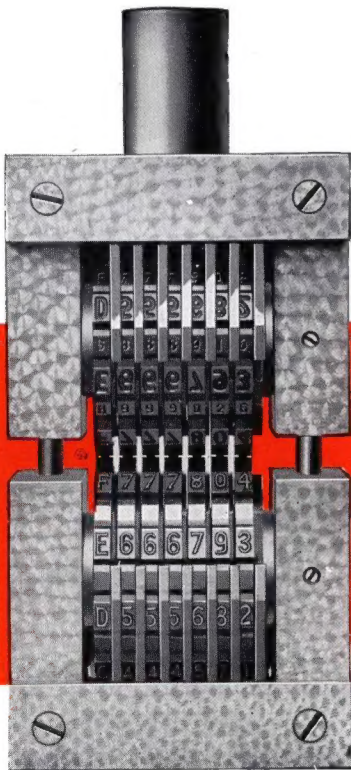
Three Line "Victor" style Holder—made to your specifications.





**HEAVY DUTY "AUTOMATIC CHANGE"  
EMBOSSING HEAD**

Recommended for embossing heavy gauge metals with large characters. When ordering specify stroke of press.



**STYLE No. 29 EMBOSSING HEAD**

For serial numbering sheet metal from .005" to .040" thick, with 1/8" to 1/2" characters. Recommended for permanent identification marking. When ordering, give us space limitations, press stroke and shank diameter.

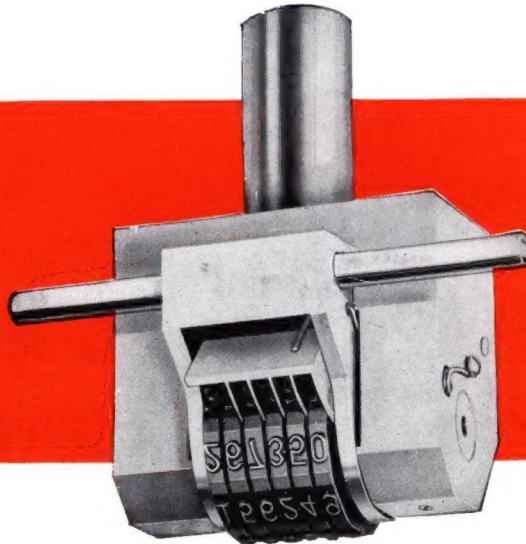
## ALL STYLE NUMBERING HEADS

**USED IN STAMPING PRESSES FOR RAPID  
MARKING WHERE SERIAL NUMBERING IS DESIRED**

Stamping, embossing and debossing numbering heads furnished with a full range of character sizes . . . for use in foot, bench style, power presses and marking machines. Standard heads are supplied with sharp face Gothic characters for marking metal. Flat face Gothic or shaded Roman style characters are recommended for marking brass or soft metals.

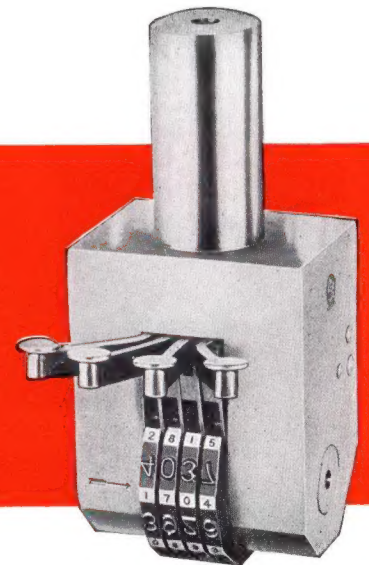
### WHEN ORDERING

- Tell us style of numbering head wanted, as shown on these pages.
- Tell us number of wheels wanted, size and style of characters (see chart). If special characters are required, send sample.
- Suffix and Prefix letter wheels are available with 10 characters and blank space. Tell us letters required.
- Give us overall marking space limitations and where possible, a sample part to be marked.
- Give us size of shank to fit your press. Numbering heads can be supplied with round, rectangular or dovetail shanks, as required.  
Maximum overall length marking permissible.



**STYLE No. 25 AUTOMATIC HEAD**

For consecutive number changing with each stroke of press. Wheels can be tripped by hand if required. Made for automatic duplicate or triplicate numbering. Furnished with characters from 1/40" to 1/2" in size. Sturdily built for long service life.



**STYLE No. 28 KEY or LEVER  
OPERATED HEAD**

This style head used for odd numbering. Each wheel can be quickly changed without altering position of other wheels, by depressing levers which control each individual wheel.





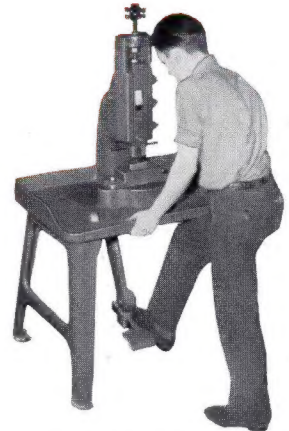
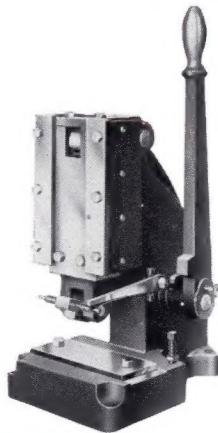
## ...FOR EVERY INDUSTRIAL USE

**USED FOR NUMBERING NAME PLATES, KEYS, MACHINED PARTS, LOCKS, GUNS, TAGS, Etc.**

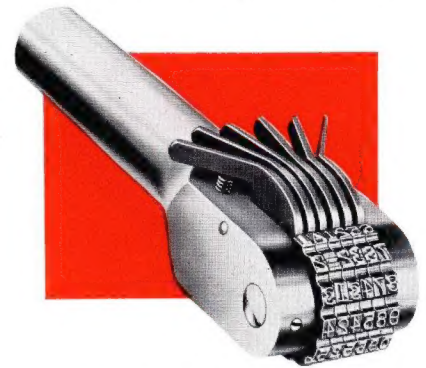
### STYLE No. 202

#### Bench Mounted Marking Press

A sturdily built press for production marking. Supplied with automatic or lever operated head, for light duty stamping. Marking pressure is applied by the handle through toggle joint movement.



Foot Press Marking with Style No. 25 Automatic Head. Fast, economical consecutive numbering of small parts.



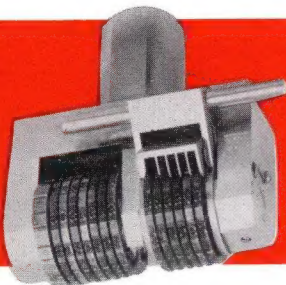
#### Style No. 30 Hand Numbering Head

Lever held, manually changed wheels are engraved with figures from 0 to 9 inclusive. Complete, perfectly aligned impressions are secured with a single hammer blow.

### STYLES OF FIGURES

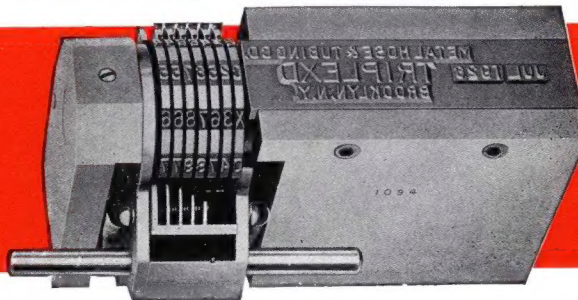
No. 100	1234567890	No. 106	123456780
No. 101	1234567890	No. 122	1234567890
No. 103	1234567890	No. 123	123456780
No. 102	1234567890	No. 151	1234567890
No. 105	123456780	No. 153	1234567890

Illustrated above are various styles of characters available for use in numbering heads. This chart shows exact style and spacing of characters. When ordering, refer to number at left (in black). We can duplicate any other preferred style or size.



#### Style No. 26 Special Double Heads

Supplied to meet your requirements, recommended for name plate or identification marking. Furnished with manual, automatic or lever changed heads, in combination. Illustration shows manually changed head for Catalog, Model or Date marking, with Automatic head for serial numbering.



#### Style No. 27 Combination Stamping Die and Numbering Head for Complete Marking with One operation.

Permanent marking made by interchangeable insert stamping die, in combination with consecutive automatic serial numbering head.



#### Style No. 15 Hand Numbering Device

For light duty serial or odd number stamping on brass, aluminum, zinc or annealed steel plates or products. Designed to meet your requirements. Impression secured with hammer blow on spring return head.





## No. 175 HYDRAULIC MACHINE

*... for Marking Regular or Irregular Surfaces*

This self-contained Heavy Duty Marking Machine is designed to roll lettering into flat, round and irregular surfaces with uniform depth. The hydraulic cushion which raises the table can be adjusted to maintain impressions of desired depth. Foot pedal at front of machine will produce single stroke or continuous operation at will. Solid flat dies or interchangeable type holders are used for marking rounds. Engraved roller dies or interchangeable roller dies, are used for marking flat parts.

The smooth cushion pressure of hydraulic marking obtained by this machine is of extraordinary power and eliminates contact shock with marking tools, thus prolonging their lives. Irregular surfaces and contours are easily and quickly marked with this machine. The accessible hand controls for speed and pressure make the machine ideal for marking parts of varied sizes and dimensions, where frequent set-ups are required.

### SPECIFICATIONS

This machine will mark flats, rounds or irregular surfaces up to 6" diameter or thickness. Open back permits marking of long bars which may be pushed through opening between uprights. Die Carriage travel adjustable from 3/8" stroke to 6" stroke.

Die Carriage speed adjustable from 50 one inch strokes to 10 six inch strokes per minute.

Throat—Center of die to front of uprights.....	3-1/2"
Table Rise (Hydraulic).....1/2"	Table Rise (Hand Wheel)..... 5"
Table Pressure .....	12,000 lbs.

#### Marking Capacity—

3 Lines 1/4 " Letters in Steel	5 Lines 1/8 " Letters in Steel
4 Lines 3/16" Letters in Steel	7 Lines 1/16" Letters in Steel

Table 6" x 12" with 6 tapped mounting holes.  
 Drive—2 H. P. 1750 R. P. M. Motor.  
 Floor Space.....25" x 30"      Weight .....1600 lbs.  
 Height .....56"      Shipping Weight.....1800 lbs.

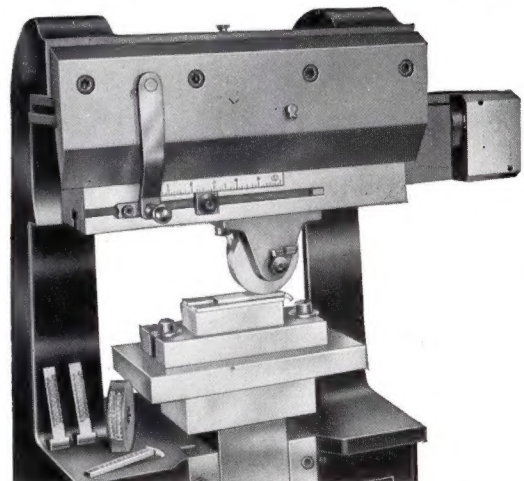
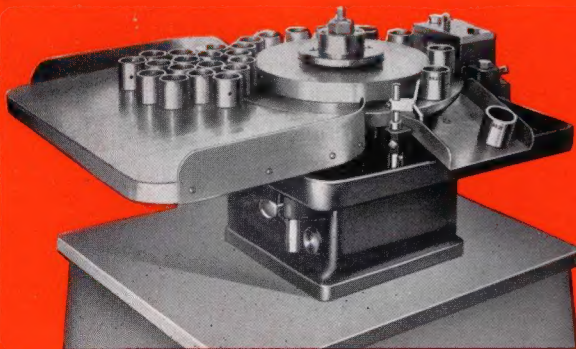


Illustration of a flat part being marked with a solid roller die in the No. 175 Machine.



## No. 201 POWER OPERATED MACHINE

*... for Rapid Production Marking*

This machine is designed for rapid production marking on the circumference of round parts or parts having round sections. Bushings, couplings, or tubular sections having a thin wall are supported in the marking operation by mandrels spaced around feed table.

### SPECIFICATIONS

Capacity—approximately 100 to 125 per minute.  
 Floor Space—30" x 40"      Height—45"      Weight—approximately 800 lbs.





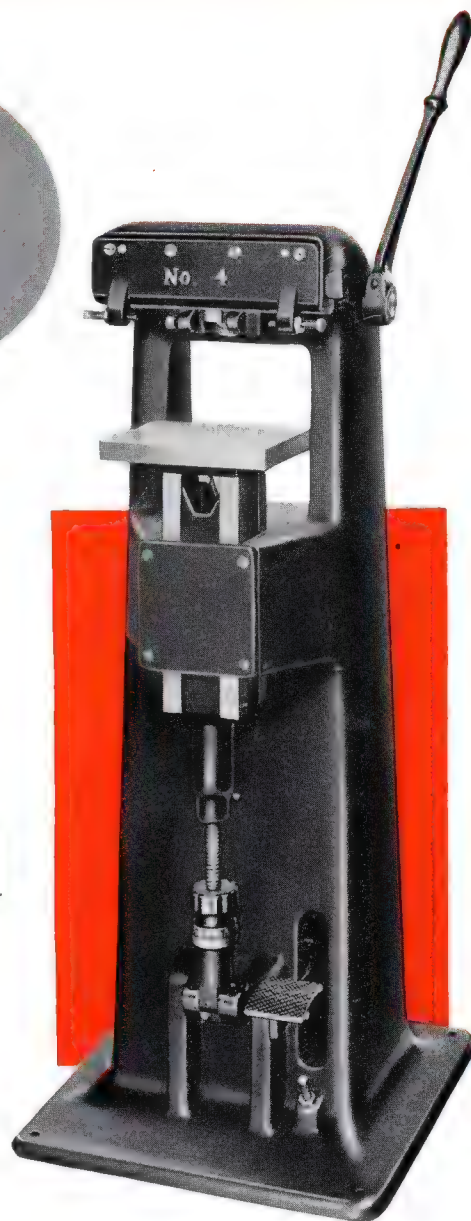
# No. 4 HAND OPERATED MACHINE

*for All General Purpose Marking*

Trade-marks, patent numbers, names, letters, etc., are quickly and legibly marked on flat or round parts of various shapes or sizes with this machine. Roller dies are used for marking flat surfaces (See page 13-B) and flat dies for marking round surfaces (See page 12-B).

Parts to be marked are held in a suitable fixture which is fastened to the work table of the machine. Pressure on the foot-treadle raises the table and brings the work in contact with the marking die. The handle is then pulled downward and the die moves across the part, marking it uniformly and legibly.

Send us a sample or drawing of the part to be marked. Indicate lettering, location of mark, and maximum quantity to be marked per hour. We will quote promptly on a machine best suited for your marking application.

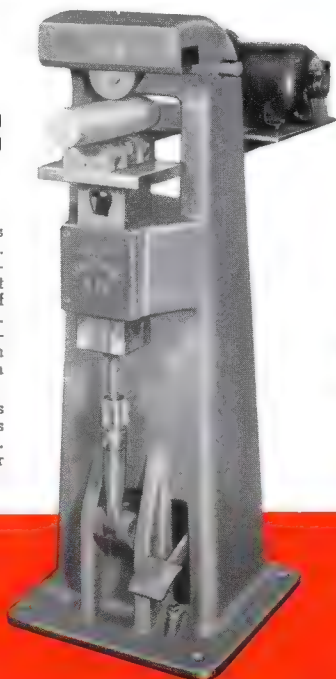
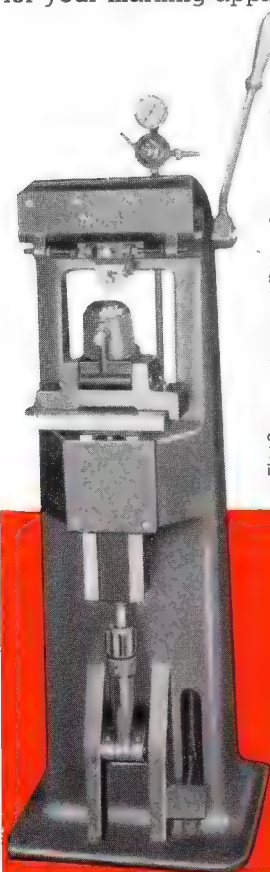


## No. 4 MACHINE

*... with Pneumatic Attachment*

The pneumatic machine reduces marking fatigue. Up to 6000 lbs. pressure is applied by air instead of by the conventional foot treadle. One to three lines of lettering can be marked . . . uniformly . . . on uneven surfaces. Work may vary 1/2" in thickness or diameter with equally good marking results.

A four way foot valve admits air into cylinder as the pedal is depressed, thus raising the table. Release of the table exhausts air instantly. Air pressure required: from 25 lbs. to 50 lbs.



## MOTORIZED No. 4

Special fixtures and motorized operation can be added to the standard No. 4 Machine for fast production marking. Illustration shows application of marking large round parts up to 6" in diameter. Production capacity: approximately 60 to 300 per hour, depending on size of part and handling facilities.

## SPECIFICATIONS

Max. length of mark on flat surfaces.....	4 1/2" (Special 6")
Max. length of mark on round surfaces.....	3"
Max. size character on soft steel.....	1/8"-.007 deep
Max. size character on other soft materials.....	1/8"-.007 deep
Production capacity.....	as fast as parts can be handled (1" Dia. round marking application—Approximately 300 per hr.)
Floor Space.....	18" x 20"—Height 48"
Weight.....	375 lbs.
Shipping Weight.....	450 lbs. (Ocean shipment 500 lbs.—13 cu. ft.)

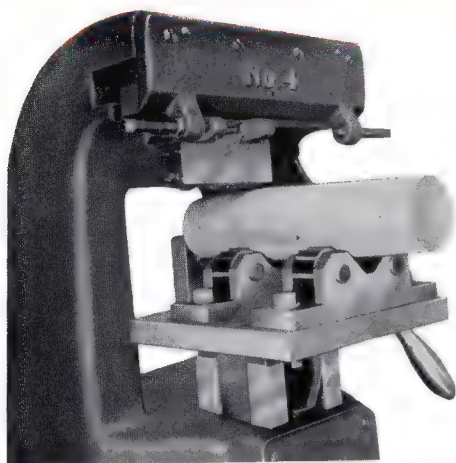
*This machine uses the same holders, part fixtures and marking dies, either with or without pneumatic attachment or motor unit.*



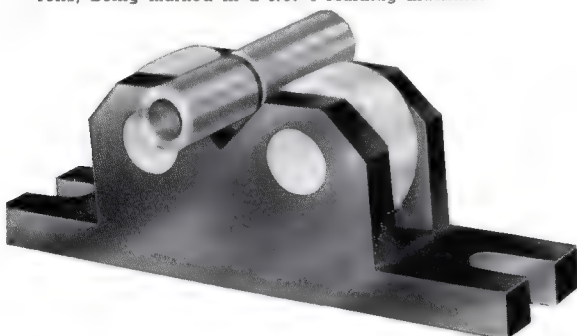


## MARKING ROUND-FLAT ... with Standard

Round parts are marked with flat dies or a holder with interchangeable steel type, held in the sliding head of the machine. The part is supported in cradle rolls, or it is allowed to roll on the surface of a hardened steel plate, as the marking die moves across its circumference. Cradle rolls are used where the part is of extra large diameter or length, and where the part is tubular and of thin cross-section.



Large diameter part supported in double cradle rolls, being marked in a No. 4 Marking machine.



### ROLLER BEARING CRADLE ... for Marking Tubular and Large Diameter Parts

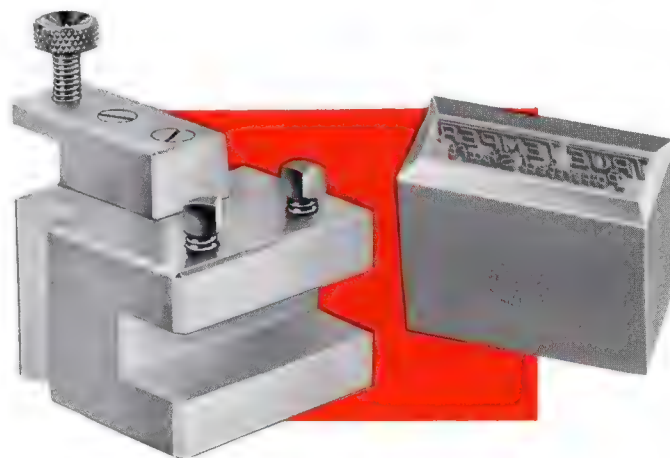
Particularly adaptable to marking thin cross-sectional tubing, as marking pressure is divided at two points against the rolls. Standard Sizes are as follows:

No. 1 For diameters 7/16" to 1" No. 2 For diameters 3/4" to 2"  
No. 3 For Diameters 1 1/4" to 3 1/2"



### INTERCHANGEABLE STEEL TYPE HOLDER TYPE SUPPLIED IN PARTITIONED WOODEN BOX, FOR EASY HANDLING.

Patent numbers, codes, dates, etc., can be marked on your products by means of the holding fixture and interchangeable type shown. Standard fixtures for 1 or more lines of type give a maximum mark of 4 1/2" in length.



### STANDARD FLAT DIE HOLDER

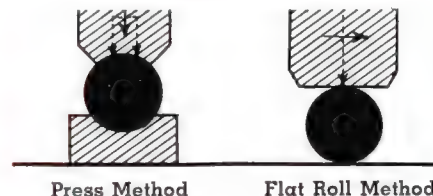
Shown Above with Solid Flat Die

Where round products are marked with special lettering, trade-marks, graduations or special designs ... solid flat dies as shown above are used in the holding fixture at left. Dies are quickly and easily changed by loosening set screws at side of holder.

Standard Sizes of Holders

Die	Blank Length	Face	Thickness	Die	Blank Length	Face	Thickness
2"	1 1/2"	3/4"	3/4"	3"	1 1/2"	3/4"	3/4"
2"	3/4"	3/4"	3/4"	3"	1"	3/4"	3/4"
2"	1"	3/4"	3/4"	3"	1"	3/4"	3/4"

#### COMPARISON OF PRESS AND ROLLER MARKING OF ROUND PARTS



Press Method

Flat Roll Method

Minimum pressure is obtained by the flat roll method due to one character per line marking at any point, giving maximum die life. Uniform impressions over full circumference if desired. Press method requires a die for each diameter and is limited to 90° of circumference.

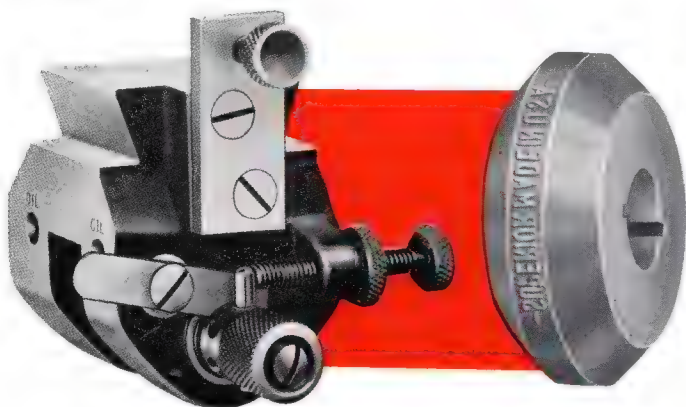




## OR CONTOURED PARTS

### Marking Machines

Parts having flat, concave or convex surfaces are marked with roller dies or a holder with interchangeable segment type held in a roller die holder, carried in the slide head of the machine. Generally, the part is supported in work holding fixtures fastened to the table of the machine, the marking die moving across the product "rolling in" the mark.



## ROLLER DIE HOLDER

Shown above with Solid Roller Die

This new design roller die holder fits into a dovetail slot and can be moved from front to back by an adjustable screw. Standard holder supplied for solid and interchangeable roller dies for 1 or more lines of type from 1½" to 3" in diameter, Maximum length of mark is 4½".

### STANDARD SIZES OF ROLLER DIE HOLDERS:

Die Blank Diameter	FACE	BORE
1½"	5/8"	1/2"
2"	3/4"	5/8"
2½"	3/4"	5/8"
2½"	1"	5/8"
2½"	1¼"	5/8"
2½"	1½"	5/8"
3"	1¾"	3/4"

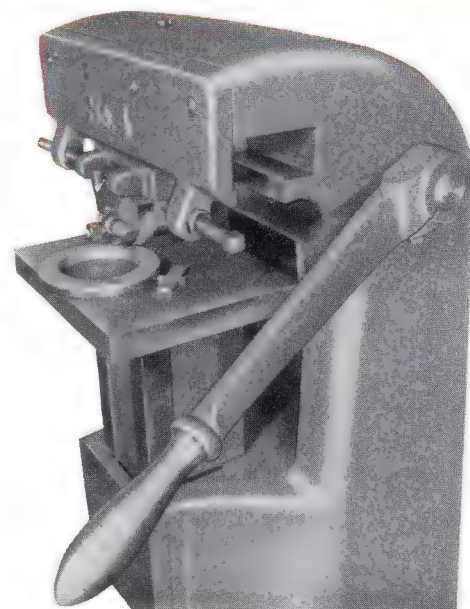
### COMPARISON OF PRESS AND ROLLER MARKING OF FLAT PARTS



Press Method

Roller Method

Minimum pressure is obtained by the roller method due to one character per line marking at any point, giving maximum die life. Uniform depth of impressions is secured over entire area of flat or contoured surfaces. Press method requires press capacity commensurate with the amount of engraving. For contoured parts a die is required for each shape.



This illustration shows a flat part being marked in a No. 4 Marking Machine with a solid roller die.



## ROLLER DIE WITH INTERCHANGEABLE TYPE

Type and Holder Supplied in Handy Wooden Box

Interchangeable roller dies are made to your requirements. Supplied with steel type, logo type, part of information engraved on the solid part of the roll . . . in one or more lines. Type is quickly and easily changed. Segment dies with several characters engraved on them, save time in changing from one set-up to another.

### SUGGESTED TYPE FONTS

3A Font—68 Letters

Character	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	&	.	-	Blank
Quantity Each	3	2	2	4	2	2	2	4	2	1	3	2	3	3	2	1	3	4	3	2	2	2	1	2	1	1	3	3	1	12

5A Font—111 Letters

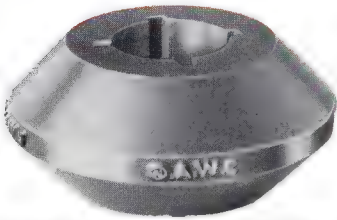
Character	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	&	.	-	Blank	
Quantity of Each	5	3	4	4	6	3	3	4	5	3	2	6	4	5	5	3	2	5	6	5	4	3	3	2	3	2	2	4	4	1	25

Numerals are Supplied in Sets from 0 to 9





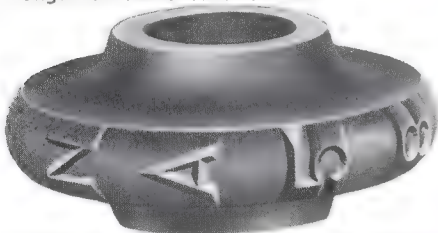
## ROLLER DIES FOR EVERY "Tuf-Face"\* . . . For Marking Flat,



**STANDARD SINGLE LINE ROLLER DIE**  
Engraved with one or more impressions equally spaced around the roll. One or more key ways supplied as required.



**TRADE MARK ROLLER DIE**  
Accurate duplication of trade marks on roller dies. Illustration shows engraving for marking flat surfaces. Trade mark engraved twice on this roll.



**CONVEX DIE for MARKING CONCAVE SURFACES**

Roller dies supplied for marking concave, convex or irregular surfaces. This die is used in marking concave passes in a chilled roll.



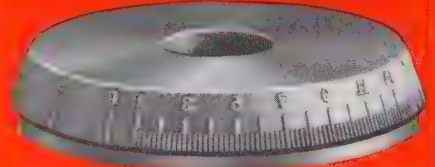
**CONCAVE TRADE MARK DIES for Marking SPHERICALLY CONVEX SURFACE**

This die used in hydraulic marking machine shown on page 10-B.

### ECONOMY IN USING STANDARD SIZES

If you can use any of the following standard size roller blanks there is a worthwhile saving.

Dia.	Thickness	Hole
1 1/2"	5/8"	1/2"
2"	3/4"	5/8"
2 1/2"	3/4"	5/8" or 3/4"
3"	3/4"-7/8"	3/4"
3 1/2"	3/4"-1"	1"



### GRADUATED ROLLER DIE

Engraved with graduations and lettering to meet your marking requirements. Designed to fit any marking machine or special device . . . for marking beveled, flat, concave or convex surfaces.



### SCORING DIES

Dies designed for use in hydraulic marking machines. Engraved with trade-marks, dots, lines, etc.



### WIRE, ROD AND TUBE MARKING

*With Segment Dies  
in Straightening Rolls*

This method provides an economic means of marking, eliminating second handling of products. The illustration shows an application of marking welding rod. An enlarged view of the segment die is shown above, along with a neatly marked section of rod.





# INDUSTRIAL MARKING NEED

## Concave, Convex Surfaces

The use of engraved roller dies is the standard method for production marking of machine parts, hardware, cutlery, etc. Unusually legible marking with unequalled uniformity is secured. Depth of marking is controlled, with minimum distortion through reduced marking pressure. Cost is low. Dies are properly hardened and tempered to contain our famous "Tuf-Face" features.

\*Reg. U. S. Pat. Off.



### EMBOSSING ROLLER DIES

Male and female dies engraved with any desired lettering or trade mark for embossing flat or contoured surfaces. Engraving is designed to prevent fracture at point of marking, maintaining even flow of metal throughout embossing.

### SEGMENT INSERT DIES

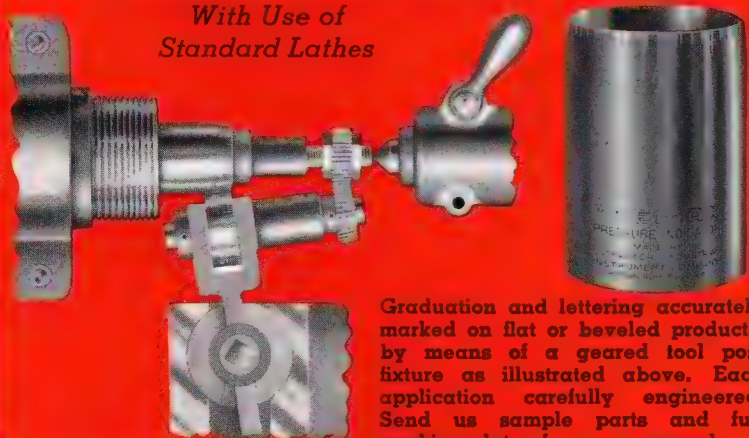
*For Use in Forming Rolls*

Segment dies can be easily inserted into existing forming rolls, providing a means of legibly marking products which would otherwise be left unidentified.

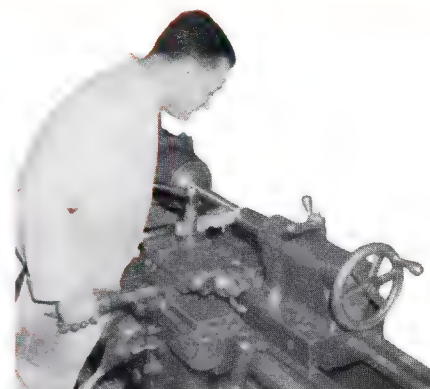


### ACCURATE GRADUATION MARKING

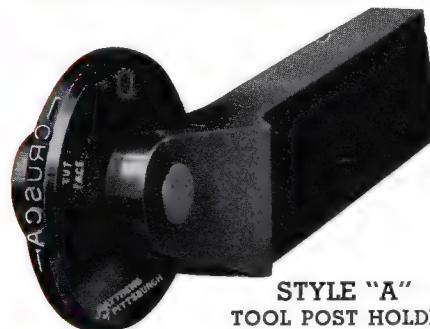
*With Use of  
Standard Lathes*



Graduation and lettering accurately marked on flat or beveled products, by means of a geared tool post fixture as illustrated above. Each application carefully engineered. Send us sample parts and full marking data, for our proposal.



Production marking of round parts with lathe tool post holder and roller dies.



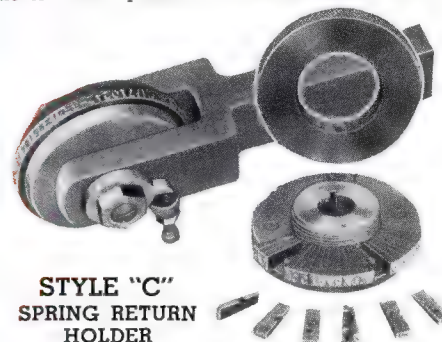
**STYLE "A"**  
TOOL POST HOLDER

Free rolling die held in forked holder . . . designed for your marking application. Holder and dies shown, used for marking cast iron rolls with sunk lettering, so that rolled bars show raised trade name spaced along bar.



**STYLE "B"**  
SPRING RETURN  
HOLDER

The periphery of round parts can be marked in screw machines, engine or turret lathes with the above holder and solid engraved roller dies. "Built in" spring permits die to mark only once . . . returns die to normal position when withdrawn from work.



**STYLE "C"**  
SPRING RETURN  
HOLDER

This unit is the same as Style "B", except that a roller die with interchangeable steel type is used.





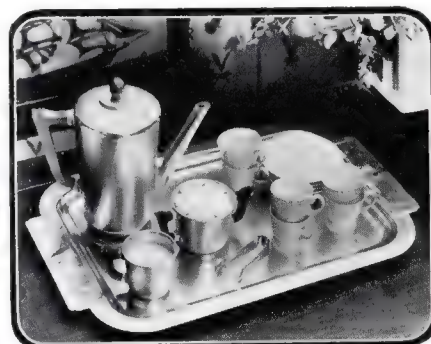
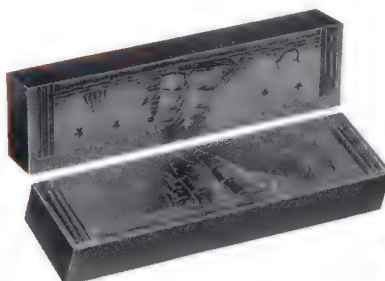
## Raised or Sunk Lettering or ... with Coining, Semi-Coining,

### ROUND COINING DIES

Raised lettering coined on both sides of a knurled souvenir. Designs or trade-marks accurately reproduced by coining.

### COMBINATION SEMI-COINING AND STAMPING DIES

Male and female inserts . . . used in forming dies . . . accurately contoured to ringier bar shape. Center section semi-coined, end section stamped to provide raised and sunk lettering in the forming operation.



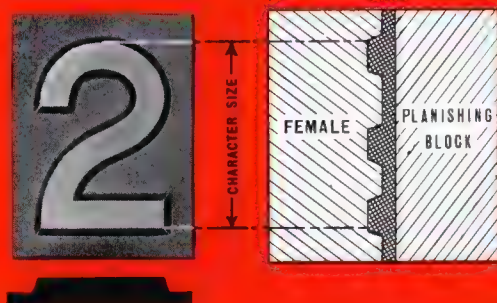
### RECTANGULAR COINING DIES

Raised lettering against a stippled background reproduced on a flat plate. Plate is later formed over top of razor blade. Coining gives maximum legibility to small characters.

### INTRICATE DESIGNS SEMI-COINED

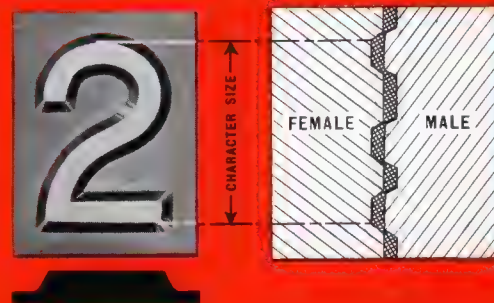
Delicate designs, trade names, trade-marks, lettering, etc., accurately reproduced on heavy gauge metals . . . in modeled relief . . . by expertly engraved semi-coining dies.

## COINING



Coining is used on all metals or coins where raised lettering is desired on one or both sides. Recommended where smooth finish surface is required, with lettering on one side only. Coining is not practical on metals of less than 16 gauge. Maximum coining depth of characters recommended is approximately .010". Write for press capacity information.

## SEMI-COINING



Semi-coining is used where the face effect desired is comparable to coining, but where the reverse side of the semi-coined metal or part need not be smooth. Semi-coining requires approximately 50% less press capacity than coining, and is used where the depth of characters required is not more than 2/3 the thickness of metal used.



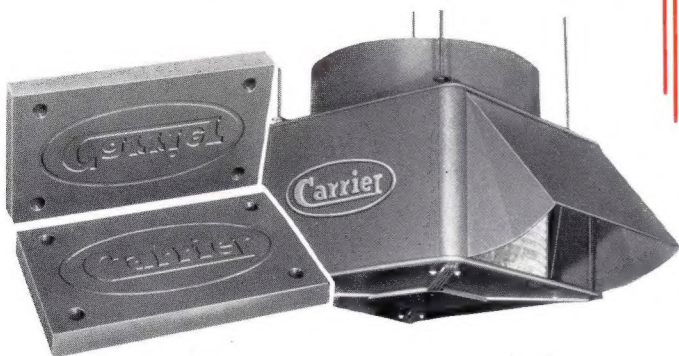


## Designs Accurately Reproduced Embossing and Debossing Dies

### SHEET METAL EMBOSSING

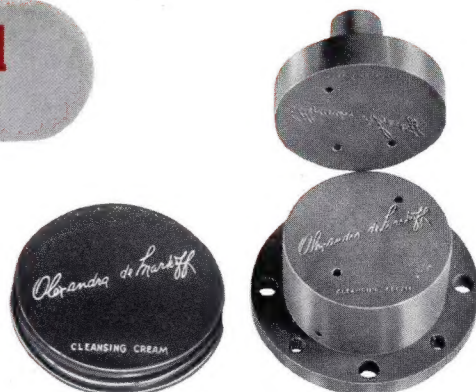
with Interchangeable Insert Dies

Indestructible lettering and trade marks reproduced on standard gauge metal drums and parts.



### TRADE MARK EMBOSSING

Economical and permanent trade marking of your metal products with embossing dies. Bold . . . indestructible trade names reproduced, legibility increases when brayed in contrasting color.



### METAL CAP DEBOSSING

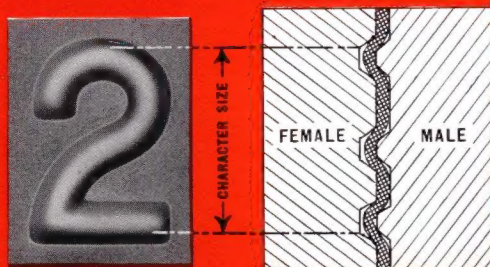
Debossing dies produce intricate sunk lettering or design. Enamel filled against contrasting background gives a beautiful effect.



### DEBOSSING METAL PRODUCTS

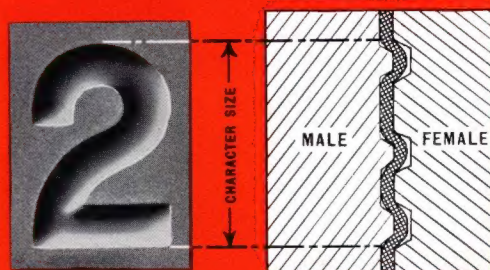
Where raised lettering is objectionable and permanence of marking desired-metal products can be debossed in the forming operation. Used where thin gauge metals cannot be satisfactorily stamped.

## EMBOSSING



Plain embossing is used on all gauge metals where round face characters are desired. Height of embossing can be raised to three (3) times the thickness of metal used. Depth is governed by the size and stroke of the smallest character engraved on the dies. Where thickness of metal exceeds approximately  $\frac{1}{8}$  the character size, semi-coining is recommended.

## DEBOSSING



Debossing has the same effect as embossing except that lettering is sunk. Used where raised lettering is undesirable or where enamel filling is wanted. Where stroke of character is broad, a flat bottom style can be furnished.





## SPECIAL MACHINES OR DEVICES FOR EVERY MARKING NEED

*Made for Your Required Production Capacity*



### No. 79 MARKING MACHINE

*for Fast Production Marking of Rounds*

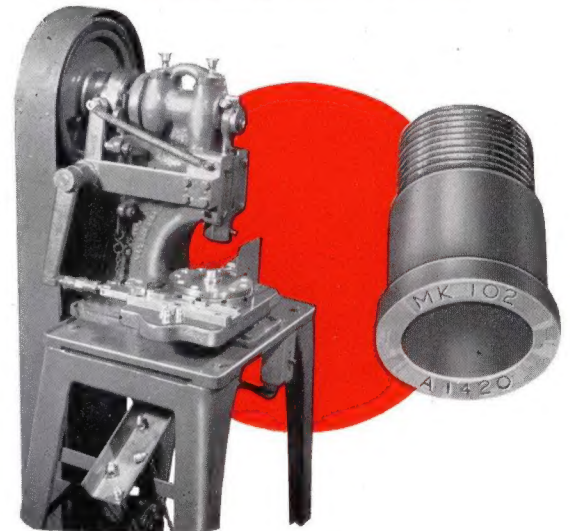
This machine selects, marks and ejects symmetrical rounds at high speeds. It is made in five sizes for marking rounds from 1 1/4" to 6" in diameter. Marking dies or steel type is quickly and easily changed.

#### SPECIFICATIONS

Floor space.....	45" x 30" x 40" high
Capacity.....	10 to 40 pieces a minute
Weight.....	approximately 1500 lbs.
Motor.....	3/4 H. P. with geared head

### No. 200 MARKING MACHINE

*for Stamping Small Parts*



The No. 200 machine is a small dial feed power press . . . for marking ends of straight sided round parts. Parts are hand fed into the machine and are automatically marked and ejected.

#### SPECIFICATIONS

Press.....	Five ton Capacity
Motor.....	1/2 H. P.—belt drive
Speed.....	60 pieces per minute
Floor Space.....	24" x 30" x 50" high
Weight.....	Approximately 500 lbs.

### TIME TRAIN RING MARKER

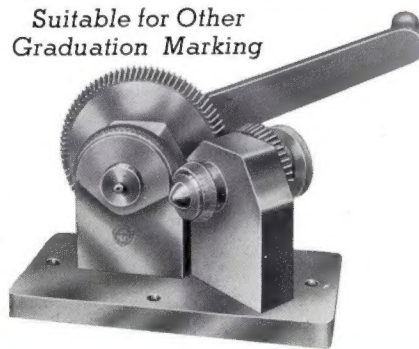
*Suitable for Other Graduation Marking*



Designed for marking Time Train Rings, this hand operated device is also suitable for marking fuses, beveled dials, etc., that require graduation marking. Marks but one size part and one size bevel.

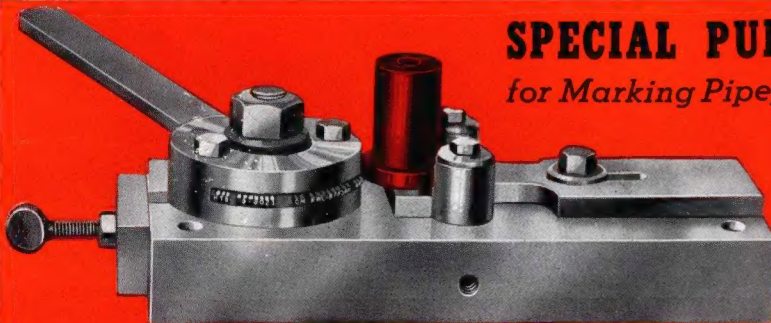
#### SPECIFICATIONS

Size.....	14" x 8" x 10" high
Capacity.....	100 to 600 per hr.
Weight.....	75 lbs. Ship. Wt. 100 lbs.



### SPECIAL PURPOSE MARKING DEVICE

*for Marking Pipe, Flanged Parts, Tubing, Bars, etc.*



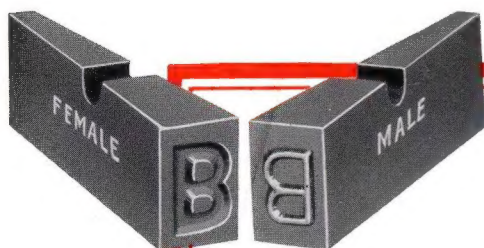
The device (at left) is shown marking the periphery of flanges. It serves equally well for marking long bars, pipe, tubing and many other round or flat products. For marking long rounds, the table is provided with a hole through the center. Device made for your marking requirements. Give details when writing for quotation.



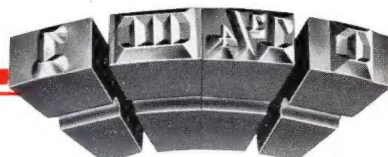


# "Tuf-Face" STEEL TYPE for Every Industrial Use

"Tuf-Face"\* Steel Type can be made an integral part of your production equipment. It can be designed for insertion into forming, stamping, embossing or roll fixtures or tools. "Tuf-Face" type can be engraved with any style characters, symbols, trade names, trade marks, etc., for stamping, embossing or debossing flat, curved, concave or convex surfaces. Send us complete information for our proposal.



Segment Embossing Type



Segment Logo and Single Character Type



Interlocking Tongue and Groove Type



Round Type with Flat Groove



Fool Proof—Round Logo Type



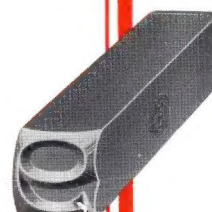
Threaded Shank Type



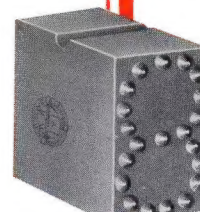
## PARTITIONED WOODEN TYPE BOX for Convenient Handling of Type

Type is supplied in a partitioned, mahogany finish, wooden box as illustrated above, when purchased in sufficient quantity. Type boxes help to prevent loss or misplacement of type when not in use.

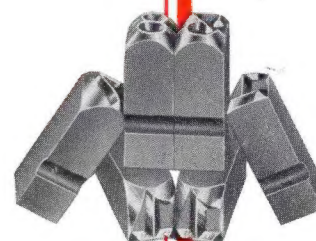
\*Reg. U. S. Pat. Off.



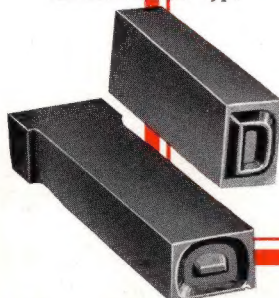
Square Body Type



"Lo-Stress" Dot Design Type  
Pat. No. 1,932,357



Standard Grooved Type



Male and Female Embossing Type. "T" Headed Female for Upper Chase.



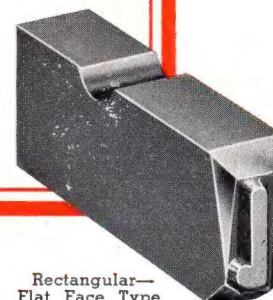
Trade-mark Type, with "L" Head



Curved Line Segment Type



Tapered Body Segment Type



Rectangular—Flat Face Type



# *There's a Matthews Marking Device!*

## FOR EVERY INDUSTRIAL MARKING NEED



### STEEL STAMPS

"Safe-Hed"—"Tuf-Face" letter, figure and symbol stamps are made of finest tool steel, properly hardened to give maximum service.

Let us help you reduce your marking costs. Our engineering and experience are at your service. Send for our new Steel Stamp Catalog No. 146.

### STEEL HAND STAMPS

Matthews steel hand stamps are used for stamping trade marks . . . names . . . patent numbers and other important data on all kinds of industrial products. Made in straight, curved, concave or convex lines . . . to fit your marking needs. Write for steel stamp catalog No. 146.



### SYMBOL STAMPS

Symbol stamps are used by manufacturers to denote responsibility . . . inspection . . . coding . . . dating or analysis of products. We have hundreds of designs from which you may choose, or we can duplicate any private symbol or design. Write for catalog No. 146 showing chart of designs, and prices on stock symbols.



### INSPECTORS' HAMMER No. "RR1"

This new and patented interchangeable inspector's hammer provides an inexpensive and sturdily built hammer for inspection marking. Round blank type is easily inserted or removed by releasing or tightening the knurled screw retaining ring. Positive holding of type is guaranteed by action of the ring on a synthetic rubber washer. Steel type engraved with one or more characters or symbols, in any desired size.



### THE "Champion" HOLDER

The "Champion" Steel Type Holder (patented) is recommended for 90% of all marking applications requiring the use of interchangeable steel type. It is used where heavy or medium duty marking applications require long, continuous hard usage. The "Champion" is supplied for marking straight, curved, concave or convex surfaces. Also supplied with shank for press marking applications.



# JAS. H. MATTHEWS & CO.

## FOR QUICK SERVICE . . . CALL OUR NEAREST PLANT OR SALES OFFICE